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PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

### Complete if Known

Application Number	09/722,950
Filing Date	November 27, 2000
First Named Inventor	Richard E. Smalley
Art Unit	1741
Examiner Name	Not yet assigned
Attorney Docket Number	11321-P002D1

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### U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
GR		US- 5,698,175	12-16-1997	Hiura et al.	
		US- 5,591,312	01-07-1997	Smalley	
		US- 5,589,152	12-31-1996	Tennent et al.	
		US- 5,578,543	11-26-1996	Tennent et al.	
		US- 5,500,200	03-19-1996	Mandeville et al.	
		US- 5,457,343	10-10-1995	Ajayan et al.	
		US- 5,424,054	06-13-1995	Bethune et al.	
		US- 5,346,683	09-13-1994	Green et al.	
		US- 5,338,571	08-16-1994	Mirkin et al.	
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		US- 5,300,203	04-05-1994	Smalley	
		US- 5,300,023	04-05-1994	Lowery et al.	
		US- 5,227,038	07-13-1993	Smalley et al.	
		US- 5,171,560	12-15-1992	Tennent	
		US- 5,165,909	11-24-1992	Tennent et al.	
		US- 4,663,230	05-05-1987	Tennent	
		US-			

### FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
GR		EP 0591595 A1	10-08-1992	Europe		
		WO 98/05920	02-12-1998	PCT		
		WO 97/09272	03-13-1997	PCT		
		WO 96/38705	12-05-1996	PCT		
		WO 96/18059	06-13-1996	PCT		
		WO 98/07163	08-10-1989	PCT		

Examiner Signature

*Elizabeth M. Cole*

Date Considered

8/4/03

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Sheet 2 of 4

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lel		Ajayan et al., "Growth morphologies during cobalt-catalyzed single-shell carbon nanotube synthesis," Chem. Phys. Lett., 215:509-517, 1993.	
		Bali, "The perfect nanotube," Nature, 382:207-208, 1996.	
		Bethune et al., "Cobalt catalyzed growth of carbon nanotubes with single atomic layer walls," Nature, 363:605-607, 1993.	
		Chai et al., "Fullerenes with metal inside," J. Phys. Chem., 95(20):7564-7568, 1991.	
		Dai et al., "Single-wall nanotubes produced by metal-catalyzed disproportionation of carbon monoxide," Chem. Phys. Lett. 260:471-475, 1996.	
		Dai et al., "Nanotubes as nanotubes in scanning probe microscopy", Nature, 384:147-150, 1996.	
		Dresselhaus et al., Science of Fullerness and Carbon Nanotubes, Academic Press, San Diego, California, Chapter 19, pp. 756-760, 1996.	
		Ebbesen et al., "Carbon nanotubes," Annual Review of Materials Science, 24:235-264, 1994.	
		Ebbesen et al., "Large-scale synthesis of carbon nanotubes," Nature, 358:220-222, 1992.	
		Ge et al., "Scanning tunneling microscopy of single-shell nanotubes of carbon," Applied Physics Letters, 65(18):2284-2286, 1994.	
le		Guo et al., "Catalytic growth of single-walled nanotubes by laser vaporization;" Chemical Physics Letters, 243(1-2):49-54, 1995.	

Examiner Signature	<i>Richard Smalley</i>	Date Considered	8/8/05
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 4

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First Named Inventor	Richard E. Smalley
Group Art Unit	1741
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Attorney Docket Number	11321-P002D1

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el		Guo et al., "Production of single-walled carbon nanotubes via laser vaporization technique," Proc. Symp. Recent Adv. Chem. Phys. Fullerenes & Rel. Mater., Proc. Fullerenes-Chem., Phys.-New-Directions-VII, Reno, NV, May 16-21, Electrochem. Soc.	
		Guo et al., "Self-assembly of tubular fullerenes," J. Phys. Chem., 99:10694-10697, 1995.	
		Haufler et al., "Carbon arc generation of C60," Mat. Res. Soc. Symp. Proc., 206:627-637, 1991.	
		Hiura et al., "Opening and purification of carbon nanotubes in high yields," Advanced Materials, 7(3): 275-276, 1995.	
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		Iijima et al., "Helical microtubules of graphitic carbon," Nature, 354:56-58, 1991.	
		Iijima et al., "Single-Shell Carbon Nanotubes of 1-nm Diameter," Nature, 363(6430):603-605, 1993.	
		Journet et al., "Large scaled production of single-wall carbon nanotube tubes by electric arc technique," Nature, 388:756-758, 1997.	
		Lambert et al., "Improving conditions toward isolating single-shell carbon nanotubes," Chem. Phys. Lett., 226:364-371, 1994.	
		Saito et al., "Carbon nanocapsules engaging metals and carbides," J. Phys. Chem. Solids, 54:1849-1860, 1993.	
el		Saito et al., "Extrusion of single-wall carbon nanotubes via formation of small particles condensed near an evaporation source," Chem. Phys. Lett., 236:419-426, 1995.	

Examiner  
Signature

*Elizabeth M. Cole*

Date  
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7/8/05

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<i>ES</i>		Seraphin et al., "Single-walled tubes and encapsulation of nanocrystals into carbon clusters," Electrochem. Soc., 142:290-297, 1995.	
		Thess et al., "Crystalline ropes of metallic carbon nanotubes," Science, 273(5274):483-487, 1996.	
		Toomasu et al., "Large quantity purification of carbon nanotubes and composite materials containing the purified carbon nanotubes", Chem. Abst., 123(2):233., Abstract No. 13038, 1995.	
		Venema et al., "Length control of individual carbon nanotubes by nanostructuring with a scanning tunneling microscope", Applied Physics Letters, 71(18):2629-2631, 1997.	
		Wang et al., "Stable glow discharge for synthesis of carbon nanotubes," Applied Physics Letters, 66(4):427-429, 1995.	
		Wilson et al., "Morphological modeling of atomic force microscopy imaging including nanostructure probes and fibrinogen molecules", J. Vac. Sci. Technol., B 14(4):2407-2416, 1996.	
<i>YC</i>		Yu Rongqing et al., "Purification and end-opening of carbon", Chemical Abstracts, 125(4):25-26, Abstract No. 210969, 1996.	
<i>YC</i>		Zhou et al., "Single-Walled Carbon Nanotubes Growing Radially From YC sub.2 Particles," Applied Physics Letters, 65(12):1593-1595, 1994.	

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*Elizabeth M. Dole*

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